

IL-2 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	IL2;IL-2;Interleukin-2;Aldesleukin;T-Cell Growth Factor;TCGF
Protein Construction:	Ala21-Thr153
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P60568
Molecular Weight:	16-18 KDa (reducing condition)
AA Sequence:	Ala21-Thr153

QC Testing

Biological Activity:	1. Loaded Human IL-2RA-Fc on Protein A Biosensor, can bind Biotinylated Human IL-2-His-Avi with an affinity constant of 8.60 nM as determined in BLI assay. (Regularly tested) 2. Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED50 for this effect is 0.2 ng/ml. (Regularly tested) 3. Immobilized Human IL-2RA-His at 2µg/ml (100 µl/well) can bind Human IL-2-His-Avi. The ED50 of Human IL-2-His-Avi is 6.45 ng/ml. (Regularly tested)
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-2(IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system, belongs to the

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IL-2 family. It is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions that are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine-activated killer cells, monocytes, macrophages and oligodendrocytes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481